UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



Region 6 Laboratory

Environmental Services Branch 10625 Fallstone Road, Houston, TX 77099 Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site NameOil Trust Fund
Sample Collection Date(s) 07/14/10
Contact Rich Mayer (6PD-F)
Report Date07/20/10
Project # 10REG203
Work Order(s)1007022

Analyses	includ	led in	this	report
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LC DOSS

Report Narrative

Samples 1007022-07 and 1007022-08 were re-extracted due to surrogate failure. Only the re-extraction results (1007022-07RE1 and 107022-08RE1) are reported.

No DOSS was found above the reporting limit in any of the samples.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:	
Richard McMillin Region 6 Laboratory Manager	David Neleigh Region 6 Laboratory Branch Chief

THITED STATES

Please provide a reason for holding:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Oil Trust Fund Project Number: 10REG203						
Data Management Coordinator: Christy Warren	/ /					
Data Management Coordinator Signature	Date					
Date Transmitted:/						
Please have the U.S. EPA Project Manager/Offic comments or questions.	eer call the Data Management Coordinator at 3-2137 for any					
Please sign and date this form below and return i	t with any comments to:					
Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS						
	/					
Received by and Date						
Comments:						
The laboratory routinely disposes of samples 90 hold these samples in custody longer than 90 day	days after all analyses have been completed. If you have a need to vs, please sign below.					
Signature	Date					



Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
T007-1327-100714-SW-1	1007022-01	Liquid	7/14/10 10:55	07/15/10 09:25
T007-1331-100714-SW-1	1007022-02	Liquid	7/14/10 9:25	07/15/10 09:25
T007-1331-100714-SW-2	1007022-03	Liquid	7/14/10 9:25	07/15/10 09:25
T007-2336-100714-SW-1	1007022-04	Liquid	7/14/10 10:20	07/15/10 09:25
T007-BG01-100714-SW-1	1007022-05	Liquid	7/14/10 14:00	07/15/10 09:25
T005-1333-100714-SW-1	1007022-06	Liquid	7/14/10 11:05	07/15/10 09:25
T005-2331-100714-SW-1	1007022-07	Liquid	7/14/10 8:45	07/15/10 09:25
T005-SC038-100714-SW-1	1007022-08	Liquid	7/14/10 10:30	07/15/10 09:25
T001-2001-100714-SW-1	1007022-09	Liquid	7/14/10 9:45	07/15/10 09:25
T001-2002-100714-SW-1	1007022-10	Liquid	7/14/10 10:45	07/15/10 09:25
T001-2003-100714-SW-1	1007022-11	Liquid	7/14/10 11:30	07/15/10 09:25

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1007022-01 Station ID: T007-1327-100714-SW-1

Batch: B0G1501 Date Collected: 07/14/10 Sample Type: Liquid Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	144		82.5	50-150	07/15/10 07/17/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10 07/17/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1007022-02

Batch: B0G1501 Sample Type: Liquid

Station ID: T007-1331-100714-SW-1

Date Collected: 07/14/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	140		80.4	50-150	07/15/10	07/17/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctvl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10	07/17/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007022-03

Batch: B0G1501 Sample Type: Liquid Station ID: T007-1331-100714-SW-2

Date Collected: 07/14/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers		%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	143		82.4	50-150	07/15/10 07/17/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10 07/17/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

1007022-04 Lab ID:

Batch: B0G1501 Sample Type: Liquid

Station ID: T007-2336-100714-SW-1

Date Collected: 07/14/10 Sample Volume: 24 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared A	Analyzed
Surr: DOSS-D34	138		82.8	50-150	07/15/10	07/17/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared A	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.2	1	07/15/10	07/17/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

Lab ID: 1007022-05

Batch: B0G1501 Sample Type: Liquid **Station ID: T007-BG01-100714-SW-1**

Date Collected: 07/14/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	129		74.0	50-150	07/15/10 07/17/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10 07/17/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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DOSS by LC/MS/MS

Lab ID: 1007022-06

Batch: B0G1501 Sample Type: Liquid

Station ID: T005-1333-100714-SW-1 Date Collected: 07/14/10

Sample Volume: 22 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	149		81.7	50-150	07/15/10 07/17/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10 07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007022-07RE1 Station ID: T005-2331-100714-SW-1

Batch: B0G1901 Date Collected: 07/14/10 Sample Type: Liquid Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	124		71.5	50-150	07/19/10 07/19/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctvl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	07/19/10 07/19/10

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS

1007022-08RE1 Lab ID:

Batch: B0G1901 Sample Type: Liquid Station ID: T005-SC038-100714-SW-1

Date Collected: 07/14/10 Sample Volume: 22 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	144		79.3	50-150	07/19/10	07/19/10
		Targets				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed

Dioctyl sulfosuccinate, sodium salt (577-11-7) U 20.0 1 07/19/10 07/19/10

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DOSS by LC/MS/MS

Lab ID: 1007022-09

Batch: B0G1501 Sample Type: Liquid

Station ID: T001-2001-100714-SW-1

Date Collected: 07/14/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	148		85.3	50-150	07/15/10 07/17/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate sodium salt (577-11-7)	IJ		19 1	1	07/15/10 07/17/10

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DOSS by LC/MS/MS

Lab ID: 1007022-10

Batch: B0G1501 Sample Type: Liquid **Station ID: T001-2002-100714-SW-1**Date Collected: 07/14/10

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	150		86.4	50-150	07/15/10 07/17/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10 07/17/10

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Region 6 Laboratory

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DOSS by LC/MS/MS

Lab ID: 1007022-11

Batch: B0G1501 Sample Type: Liquid)7/14/10

Station ID: T001-2003-100714-SW-1

Date Collected: 07/14/10 Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	153		88.0	50-150	07/15/10 07/17/10
		Targets			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.1	1	07/15/10 07/17/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-2248

DOSS by LC/MS/MS - Quality Control

Batch: B0G1501 Sample Type: Liquid

Blank (**B0G1501-BLK1**)

Prepared: 7/15/2010 Analyzed: 7/17/2010

Surrogates

	Result	Analyte	Spike		%REC
ANALYTE	μg/l	Qualifier	Level	%REC	Limits
Surr: DOSS-D34	164		200	82.0	50-150

Blank (**B0G1501-BLK1**)

Prepared: 7/15/2010 Analyzed: 7/17/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit	RPD RPD Limit
Dioctyl sulfosuccinate, sodium salt	U	20.0	

LCS (B0G1501-BS1)

Prepared: 7/15/2010 Analyzed: 7/17/2010

Surrogates

	Result	Analyte	Spike		%REC
ANALYTE	μg/l	Qualifier	Level	%REC	Limits
Surr: DOSS-D34	172		200	86.0	50-150

LCS (B0G1501-BS1)

Prepared: 7/15/2010 Analyzed: 7/17/2010

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits	RPD RPD Limit
Dioctyl sulfosuccinate, sodium salt	89.3	20.0	101	88.4 50-150	

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DOSS by LC/MS/MS - Quality Control

Batch: B0G1501 Sample Type: Liquid

Matrix Spike (B0G1501-MS1)

Source: 1007022-04 Prepared: 7/15/2010 Analyzed: 7/17/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC Limits	
Surr: DOSS-D34	148		174	85.3 50-150	

Matrix Spike (B0G1501-MS1)

Prepared: 7/15/2010 Analyzed: 7/17/2010 Source: 1007022-04

Targets

ANALYTE		Analyte Reporting Qualifiers Limit				%REC Limits	
Dioctyl sulfosuccinate, sodium	85.1	19.1	87.8	U	96.9	50-150	

Matrix Spike (B0G1501-MS2)

Prepared: 7/15/2010 Analyzed: 7/17/2010 Source: 1007022-11

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: DOSS-D34	146		167	87.8	50-150

Matrix Spike (B0G1501-MS2)

Source: 1007022-11 Prepared: 7/15/2010 Analyzed: 7/17/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit				%REC Limits	
Dioctyl sulfosuccinate, sodium salt	86.5	19.2	84.2	U	103	50-150	

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Region 6 Laboratory

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DOSS by LC/MS/MS - Quality Control

Batch: B0G1501 Sample Type: Liquid

Matrix Spike Dup (B0G1501-MSD1)

Source: 1007022-04 Prepared: 7/15/2010 Analyzed: 7/17/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC Limits	
Surr: DOSS-D34	143		174	81.9 50-150	

Matrix Spike Dup (B0G1501-MSD1)

Prepared: 7/15/2010 Analyzed: 7/17/2010 Source: 1007022-04

Targets

ANALYTE		Analyte Reporting Qualifiers Limit				%REC Limits	RPD	RPD Limit
Dioctyl sulfosuccinate, sodium	82.7	19.1	87.8	U	94.2	50-150	2.85	30

Matrix Spike Dup (B0G1501-MSD2)

Prepared: 7/15/2010 Analyzed: 7/17/2010 Source: 1007022-11

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: DOSS-D34	146		174	83.7	50-150

Matrix Spike Dup (B0G1501-MSD2)

Source: 1007022-11 Prepared: 7/15/2010 Analyzed: 7/17/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit				%REC Limits		RPD Limit
Dioctyl sulfosuccinate, sodium salt	89.7	19.1	87.8	U	102	50-150	3.59	30

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DOSS by LC/MS/MS - Quality Control

Batch: B0G1901 Sample Type: Liquid

Blank (B0G1901-BLK1)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: DOSS-D34	136		200	68.1	50-150

Blank (B0G1901-BLK1)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Targets

ANALYTE		Analyte Reporting Qualifiers Limit	RPD RPD Limit
Dioctyl sulfosuccinate, sodium	U	20.0	

salt

LCS (B0G1901-BS1)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: DOSS-D34	139		200	69.5	50-150

LCS (B0G1901-BS1)

Prepared: 7/19/2010 Analyzed: 7/19/2010

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC Limits	RPD RPD Limit
Dioctyl sulfosuccinate, sodium salt	102	20.0	101	101 50-150	

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Contact: Kristie Warr

Phone: 713.985.6636

CHAIN OF CUSTODY RECORD

No: T0033-100403-07/14/10-0195

Lab: U.S. EPA Region 6 Laboratory Lab Phone: 281-983-2137

R06_Deepwater_Grand_Isle

Lab#	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservativ e	MS/MS D
	T007-1327-100714-SW-1	DOSS	Surface Water	Grab	7/14/2010	10:55	2	40 ml VOA	4 C	N
	T007-1331-100714-SW-1	DOSS	Surface Water	Grab	7/14/2010	09:25	2	40 ml VOA	4 C	N
	T007-1331-100714-SW-2	DOSS	Surface Water	Grab	7/14/2010	09:25	2	40 ml VOA	4 C	N
	T007-2336-100714-SW-1	DOSS	Surface Water	Grab	7/14/2010	10:20	6	40 ml VOA	4 C	Y
	T007-BG01-100714-SW-1	DOSS	Surface Water	Grab	7/14/2010	14:00	2	40 ml VOA	4 C	N
		has	LINACH	7/14	110 -		_			-
								-		
-			-	-	-					
					-				-	
				-		-	+		-	-
				_		_				-

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY#

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Alt	_	7/1							Isarah	7/15/	9:2
21 (1		7/14/10							Harris	//4	1

Sample Temp: 1°C

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CHAIN OF CUSTODY RECORD

R06_DeepWater_Chalmette Contact Name: Kristie Warr Contact Phone: 713-985-6636 No: T0033-100402-20100714-006

Lab: U.S. EPA Region 6 Laboratory Lab Phone: 281-983-2137

Lab#	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservativ e	MS/MS D	
	T005-1333-100714-SW-1	DOSS	Surface Water	Grab	7/14/2010	11:05	2	40 ml VOA	4 C	N	
	T005-2331-100714-SW-1	DOSS	Surface Water	Grab	7/14/2010	08:45	6	40 ml VOA	4 C	Υ	
	T005-SC038-100714-SW-1	DOSS	Surface Water	Grab	7/14/2010	10:30	2	40 ml VOA	4 C	N	
							SAMPLES TRANSFERRED FROM				
pecial	Instructions:						CHAIN OF CUSTODY #				
Items	Reason Relinquished by	Date Received b		Time Ite	ms/Reason	Relinquishe	ed By Date 7-15-1	Receive	d by Date Plan	Time	
	Dufa	1/4/10 Out	7/14/10 12			Maying	1 9.2	Harr	٠/ ا		
	Attel	1/15/10 GN	7810	415							
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Region

6

Laboratory

Environmental Protection Agency

10625 Fallstone Road, Houston, TX 77099 Phone:(281)983-2100 Fax:(281)983-224

Fax:(281)983-2248

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Kristie Warr

713-985-6600 US EPA/Weston Venice, LA

CHAIN OF CUSTODY RECORD

R06 Deep H2O Horizon Reporting Lab: EPA Houston Lab Lab_State: TX

No: T0001-100405-07/14/10-0618

Lab Address: 10625 Fallstone Rd Lab_City: Houston Lab_Zip: 77099

Lab#	Sample #	Analyses	Matrix	Collecti on Method	Collected	Sample Time	Numb Cont	Preservativ e	MS/MS D	Description
	T001-2001-100714-SW-1	DOSS	Surface Water	Grab	7/14/2010	09:45	2	4 C	N	
	T001-2002-100714-SW-1	DOSS	Surface Water	Grab	7/14/2010	10:45	2	4 C	N	
	T001-2003-100714-SW-1	DOSS	Surface Water	Grab	7/14/2010	11:30	6	4 C	Υ	
						-				

SAMPLES TRANSFERRED FROM Special Instructions: CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	267,	7/14/10	Couriern	7/14/10			Willie H.	7-14-10	Hell	1/14/10	2225
-	All.	1/15/10	FAM.	7/5/0	411		Unit A.	7-1610	Isaiah	7/15/	9:25
	5.0	7150	llost A	71510	90x	-	1.00 // 1/11	7.27			
C		X	P 111	0	10						
		0					Sa	mple	Temp: 1	0	

Region 6 Laboratory

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Notes and Definitions

Α This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

AES Atomic Emission Spectrometer

CVAA Cold Vapor Atomic Absorption

ECD Electron Capture Detector

GC Gas Chromatograph

GFAA Graphite Furnace Atomic Absorption

ICP Inductively Coupled Plasma

MS Mass Spectrometer

NA Not Applicable

NPD Nitrogen Phosphorous Detector

NR Not Reported

TCLP Toxicity Characteristic Leaching Procedure

Undetected U

Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds per square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

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